

# Series 130

## Controller

### Specification

#### Base Unit

Power (user supplied)	24 VDC, (range 16 – 28 VDC), 500 mA
I/O connectors (power, control signal)	Eight pole M12 female panel mount connector and eight pole male cord connector
Setting control and alarms	dip switches
External signal for control & switching	Volt free (150 mA max, 24VDC max, resistive)
External signals	2
External signal functions	Alarm (Low Alarm & High Alarm) or Control
Removable / replaceable sensor head	Yes
LED status indicator	Low, high, within control band, diagnostics
Enclosure rating	IP41 & NEMA 2 equivalent
Enclosure size	180W x 110H x 90D (mm); 7 $\frac{1}{8}$ W x 4 $\frac{3}{4}$ H x 3 $\frac{1}{2}$ D (in)
Enclosure casing	Fibre reinforced plastic
Weight	< 850 g; < 30 oz
Approvals	Part 15 of the FCC Rules EN 55022: 1998 EN 61000-6-1: 2001



## Ozone Sensor Head Specifications

Sensor Heads	Low	High	Leak
Measurement range	0.000 - 0.500 ppm	0.50 - 20.00 ppm	0.00 - 50.00 ppm
Accuracy	< 0.008 ppm (0 - 0.100 ppm) ± 10% (0.100 – 0.500 ppm)	± 10% (0.20 - 2.00 ppm) ± 15% (2.00 - 20.00 ppm)	± 20%, 15 seconds after Reset
Resolution	0.001 ppm	0.01 ppm	0.01 ppm
Controlled Atmosphere Version	Available on Request	Available on Request	Available on Request
T90 Response	< 60 seconds (T90)	< 35 seconds (T90)	< 10 seconds
Sensor type	Gas-sensitive semiconductor		
Operating temperature range	-5°C to 50°C; 23°F to 122°F (sensor head and base unit)		
Relative humidity limit	95% maximum (sensor head and base unit)		

## VOC Sensor Head Specification \*

Measurement range	0 to 400 ppm toluene
Accuracy	< +/- 10 ppm (0 – 200 ppm) < +/- 10% (> 200 ppm)
T90 response	< 60 s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	-20°C to 60°C
Operating relative humidity range	5 to 95% non-condensating

\* Specific Calibrations to other VOC's available – contact Aeroqual Sales

## Ammonia Sensor Head Specification

Measurement range	0 to 1000 ppm
Accuracy	< +/- 5 ppm (0 – 100 ppm) < +/- 10% (100 – 1000 ppm)
T90 response	< 60 s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	-20°C to 60°C;
Operating relative humidity range	5 to 95% non-condensating

## CO Sensor Head Specification

Measurement range	0 to 2000 ppm carbon monoxide
Accuracy	< +/- 10 ppm in the range 0 to 400 ppm
T90 response	< 150s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	0°C to 70°C;
Operating relative humidity range	5 to 95% non-condensating
Approvals	UL 2034, BS 7860

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